



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

February 22, 2018

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Scott C. Glynn  
Chemist/Site Regulatory  
International Dioxide Inc  
40 Whitecap Drive  
North Kingstown, RI 02852

Subject: Notification per PRN 98-10 – Trademark correction, company addition and removal of logos and product names  
Product Name: Anthium AGP  
EPA Registration Number: 9150-12  
Application Date: December 29, 2017  
Decision Number: 538001

Dear Mr. Glynn:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact Wanda Henson at (703) 308-6345 or via email at [henson.wanda@epa.gov](mailto:henson.wanda@epa.gov)

Sincerely,

A handwritten signature in blue ink that reads "Wanda G. Henson, for".

Demson Fuller, Product Manager 32  
Regulatory Management Branch II  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Notes to reviewer: TEXT IN [BRACKETS] IS OPTIONAL  
TEXT IN {BRACES} ARE COMMENTS TO REVIEWER  
Alternate Brand Name:

**ANTHIUM™ AGP**

**5% AQUEOUS STABILIZED CHLORINE DIOXIDE  
FOR POST-HARVEST TREATMENT OF POTATOES AND POTATO STORAGE CELLARS**

ACTIVE INGREDIENTS:

Chlorine Dioxide: 5%

OTHER INGREDIENTS: 95%

TOTAL: 100%

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See side panels for additional Precautionary Statements  
[See leaflet for additional directions for use]

**First Aid**

If inhaled: Move person to fresh air. If person is not breathing call 911 or an ambulance then give artificial respiration, preferably by mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If swallowed: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

For Transport & Medical Emergencies: CHEMTREC: (800) 424-9300 (outside the U.S. (703) 527-3887). For Emergencies, including Medical: (800) 410-3063. [For Product Information: (800) 526-9377 or (800) 477-6071 (outside the U.S. (401) 295-8800)].

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

EPA Reg. No. 9150-12

EPA Est. No. XXXXXX-Y

NET CONTENTS \_\_\_\_\_ GALs.

**NOTIFICATION**

9150-12

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

02/22/2018

Notes to reviewer: TEXT IN [BRACKETS] IS OPTIONAL  
TEXT IN {BRACES} ARE COMMENTS TO REVIEWER  
Alternate Brand Name:

Manufactured For:  
INTERNATIONAL DIOXIDE INC.  
40 Whitecap Drive  
North Kingstown, RI 02852

[©2017 International Dioxide, Inc. All rights reserved. Anthium is a trademark of International Dioxide, Inc.  
[or its affiliates.]

[©2017 LANXESS. Anthium™ and any associated logos are trademarks or copyrights of LANXESS Corporation. LANXESS™ and the LANXESS Logo are trademarks of LANXESS Deutschland GmbH. All trademarks are registered in many countries worldwide.]

**PRECAUTIONARY STATEMENTS:  
HAZARDS TO HUMAN & DOMESTIC ANIMALS**

**CAUTION:** Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**PERSONAL PROTECTIVE EQUIPMENT**

Chemical-resistant gloves, goggles/face-shield and respirator (a NIOSH approved canister/cartridge respirator) must be worn during mixer-loader tasks associated with pre-storage application of Anthium™ AGP. Chemical-resistant gloves must be worn in all activities where the worker is placed in direct contact with either the wet treated potatoes during inspections or disease monitoring in the storage shed or the humidification water system/process water tank during cleaning or maintenance. Do not allow unprotected workers in the area to be exposed above the permissible exposure limit (PEL) of 0.1 ppm of chlorine dioxide for an 8-hour-time-weighted average (TWA) or 0.3 ppm for any 15-minute short-term exposure limit (STEL). Do not allow high concentrations of chlorine dioxide to accumulate within a confined space.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA

**PHYSICAL OR CHEMICAL HAZARDS**

Chlorine dioxide is a strong oxidizing agent. Contamination with other materials such as acids, chlorine, organic chemicals, etc. may cause a chemical reaction resulting in evolution of gaseous chlorine dioxide and heat. Explosion and/or fire could result. Chlorine dioxide is a poisonous explosive gas. Keep all chemical and foreign materials away from this solution.

Notes to reviewer: TEXT IN [BRACKETS] IS OPTIONAL  
TEXT IN {BRACES} ARE COMMENTS TO REVIEWER  
Alternate Brand Name:

## STORAGE AND DISPOSAL

### DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL

**STORAGE:** Do not store with easily oxidizable materials, acids, reducers, and combustible material. Avoid heat or freezing conditions. Store upright and do not stack drums over two high on pallets or partially filled drums. Use of a drum pump is suggested. Keep drum tightly closed when not withdrawing liquid. In case of spills, dilute with large quantities of water. Do not allow liquid to dry because this could present a fire hazard. Store only in the original container and take care to prevent cross-contamination with other pesticides, fertilizers, food, and feed.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

**CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container.** Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Empty the rinsate into application equipment or mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**EMERGENCY HANDLING:** In case of contamination or decomposition, do not reseal container. Isolate in an open, well-ventilated area. Flood with large volumes of water. Cool unopened drums in vicinity by water spray.

**WARRANTY:** Seller expressly warrants that the product conforms to its chemical description. There are no warranties associated with the sale of the product either express or implied including, but not limited to, the warranties of fitness for a particular purpose or use.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### FOR TREATMENT OF LATE BLIGHT AND OTHER POTATO STORAGE DISEASES USING ANTHIUM™ AGP FOR SUPPRESSION OF THE MICROBIAL POPULATION

#### A) PREPARATION OF AN ACTIVATED SOLUTION

1. Anthium™ AGP must be activated with a food-grade acid to pH 2.6 prior to dilution down to 200 to 400 ppm.
2. For a 10-gallon batch, add 9.2 gallons of water and 0.8 gallons of Anthium™ AGP. Then add 15 fl. oz. of 30% phosphoric acid or equivalent to attain a pH of 2.6. Let the mixture react for 1-6 hours. The Anthium™ AGP/phosphoric acid mixture will yield an activated solution containing 4,000 ppm available chlorine dioxide.

Notes to reviewer: TEXT IN [BRACKETS] IS OPTIONAL

TEXT IN {BRACES} ARE COMMENTS TO REVIEWER

Alternate Brand Name:

3. As an alternate preparation method, add 9.2 gallons of water and 0.8 gallons of Anthium™ AGP together. Then add 4.3 fl. oz. of 36 hydrochloric acid or equivalent to attain a pH of 2.6. Let the mixture react for 1-3 hours. The Anthium™ AGP/hydrochloric acid mixture will yield an activated solution containing 4,000 ppm available chlorine dioxide.
4. Prepare a 200 ppm available chlorine dioxide solution by diluting ½ part of the 4,000 ppm solution with 9 parts of water. Prepare an activated 400 ppm available chlorine dioxide solution by diluting 1 part of the 4,000 ppm solution with 9 parts of water.

#### **B) APPLICATION RATES FOR POTATOES GOING INTO STORAGE**

Spray 0.5 gallons of the activated 400 ppm available chlorine dioxide solution per ton of potatoes going into storage. Make one application to potatoes going into storage.

#### **C) APPLICATION RATES FOR STORED POTATOES**

Either periodic or continual treatment of the humidification water systems for potatoes may be made. For continual treatment of high-risk stored potatoes, apply an initial treatment of 200 ppm available chlorine dioxide (add 1 part of the activated 400 ppm chlorine dioxide solution per part of humidification water) as a mist into the air stream or directly into the plenum. Following the initial treatment, do not exceed 50 ppm of available chlorine dioxide (1 part of the activated 400 ppm chlorine dioxide solution per 7 parts of humidification water).

For the periodic treatment of stored potatoes with unknown risk, a treatment of 200 ppm available chlorine dioxide (1 part of the activated 400 ppm available chlorine dioxide solution for every part of humidification water) may be applied as a mist into the air stream or directly into the plenum.

To reduce the amount of water added to the stored potatoes during misting treatments, concentrations up to 400 ppm available chlorine dioxide may be applied into the air stream. Misting treatments may not exceed 0.4 gallons of Anthium™ AGP per 500 tons of treated potatoes in any single application.

#### **D) LIMITATIONS**

1. A maximum of one application may be made to potatoes going into storage. A maximum of five (5) applications per month may be made through the humidification system by misting.

Notes to reviewer: TEXT IN [BRACKETS] IS OPTIONAL  
TEXT IN {BRACES} ARE COMMENTS TO REVIEWER  
Alternate Brand Name:

{OPTIONAL LOGOS/MARKINGS/3<sup>rd</sup> Party Certifications}

